

Figure 1A.

TLR11 DNA sequence

ATGCTGAAACAATATATTCCTCTTGCTTTTGCACCAATTCCTGGCTGCCC
ATGGCTCACTCAGAGGATTCCCAGTAGAATCGATGCCAAGGATGGAAAG
ACATCAGTTCTGCTCTGTTCTCCTCATTCTGATACTATTGACTCTGGAATA
GAAAAAGTGCCTGCAAGTTTGACTGGCTACTCTGAGCTTCGTGCACTTGA
CCTTGGGAAAAACCAAATCCAAAACATCTTGGAAAATGGAGAAATCCCA
GGTTATAAAGCCCTGGAATTCCTTAGCCTTCATGATAACCATCTGCAAAC
ACTTCTACCAGGTTTCTACATACTCTACCCCAGCTTCAGAAGCTCAACC
TATCTATGAATAAGCTTGGACCAATCTTGGAGCTTCCAGAAGGACTCTTT
AGCACAAACTTAAAAGTGCTAGATCTATCCCATAATCAACTCTGTGATGT
ACCCCATGGGGCTTTCTCCCTTTTGTACAGCTCCAGGAGCTCTGGTTGA
GTGGCAATAACATCTCCAGTTTATCCAATGAAAGCCTGCAGGGACTGAG
GCAGCTGAGGACACTAGACTTAAGTTGGAATCAAATTAAGTACTCAAA
CCAGGCTGGCTCTCTCATCTTCTGCTCTGACTACCTTGAACCTTCTGGGC
ACCTACTTAGAAAATATCTTAGGCATACAACCTTCAGGGTCCCAAGATGCT
AAGGCATCTACAACCTGGGTTCTTATCCAATGCTGGACATATATCCTCCCT
GGCCCCCAACACTCCTTAGCTTAGAAATACAAGCAGAATCATGTATTCA
GTTTATGATTCACAGTGGACAGCCATTCTTATTCTTAGAGAACCTTACCT
TAGAGACTTCCATTCTATTACTAAAACCAGACAACATCACAATTCATTTT
CCCTCCCTGCGTCGCCTCACCTTGCCTGGCTACAGCTTCATCTTCTCAACC
AGTCAACTTCAGAGATTCTTCCCACAACAGCTTCCTCTTCTGGAGCACTT
CTTTATCTGGTGTGAAAACAGCTATGCAGTAGACCTCTATCTATTTGGGA
TGCCCAGGCTACGTGTGCTAGAGCTGGGGTACCTTAACCTTTTCTATGAG
TCAAGTACTATGAAGCTAGAGATGCTATTGAAGGAGGTACCTCAGTTAC
AGGTACTGGCATTGAGCCACCTGAATCTCAGGAACCTCTCTGTGTCCAGC
TTTAAGAGCTTGCAGGACCTCAAACCTGCTGCTCTTCAACTCTGAAAGGGC
GCTGGAGATGAACAGCAACCTCCAGGAGTTTATTCCTCAGATGCCTCAG
TACGTTTACTTCTCTGATGTCACCTTTACTTGCCAGTGTGAAGCTTCCTGG
CTGGAGTCTTGGGCTACACGGGGCCCCAAACACATTTGTTTATGGGCTGGA
AAAATCCATTTGCATAGCTAATGCCTCAGACTACTCCAAAACCTCTACTAT
TCTCTTTCCTTGCTACTAATTGTCCACACGGTACTGAGTTTTGGGGCTTTC
TCACCAGTTTCATTCTGCTGCTTCTGTTGATTATCCTTCCTCTGATTAGCT
GTCCTAAATGGTCCTGGCTTCATCACCTCTGGACACTCTTTCATACTTGTT
GGTGGAATTATGTGGACATAGACTCAGAGGCCAATTCAACTATGATGT
CTTTATATCCTATTGTGAGGAGGATCAAGCTTGGGTGCTGGAAGAACTG
GTTCCAGTTCTGGAGAAAGCCCCTCCTGAAGGTGAAGGCTTGAGGTTGT
GCCTGCCTGCCAGGGACTTTGGGATTGGAAATGACAGGATGGAATCCAT
GATTGCCAGCATGGGCAAAAGCAGAGCCACCCTCTGTGTGCTCACAGGA
CAGGCCTTAGCAAGTCCCTGGTGCAATCTAGAGTTACGACTGGCCACTTA
CCACTTGGTAGCCAGGCCTGGGACCACTCATCTCCTGCTGTTGTTTCTGG
AGCCCCTTGATAGGCAGAGGCTCCATAGTTACCATCGCCTATCCCGTTGG
CTCCAGAAGGAGGACTATTTTGATTGTCCCAAGGGAAAGTGGAGTGGA
ACTCTTCTGTGAGCAACTGAAGAGACGGCTCAGCAAAGCTGGACAAGA
AAGAGATTAA

Figure 1B.**TLR11 Protein sequence**

MLKQYIPLAFAPIGCPWLTQRIPSRIDAKDGKTSVLLCSPHSDTIDSGIEKVP
ASLTGYSELRALDLGKNQIQNILENGEIPGYKALEFLSLHDNHLQTLPTRFLH
TLPQLQKLNLSMNKLGPILELPEGLFSTNLKVLDLSHNQLCDVPHGAFSLLS
QLQELWLSGNNISSLSNESLQGLRQLRTLDSLWNQIKVLKPGWLSHLPALT
LNLLGTYLENILGIQLQGPKMLRHLQLGSYPMLDIYPPWPPTLLSLEIQAESCI
QFMIHSGQPFLFLENLTLETSILLKPDNITHFPSLRRLTLRGYSFIFSTS QLQR
FFPQQLP LLEHFFIWCENSYA VDLYLFGMPRLRVLELGYLNFFYESSTMKLE
MLLKEVPQLQVLALSHLNLRNLSVSSFKSLQDLKLLLFNSERALEMNSNLQE
FIPQMPQYVYFSDVTFTCQCEASWLESWATRAPNTFVYGLEKSICIANASDY
SKTLLFSFLATNCPHGTEFWGFLT SFILL LLLIILPLISCPKWSWLHHLWTLFH
TCWWKLCGHR LR GQFN YDVFISYCEEDQAWVLEELVPVLEKAPPEGEGLR
LCLPARDFGIGNDRMESMIASMGKSRATLCVLTGQALASPWCNLELRLATY
HLVARPGTTHLLLLFLEPLDRQLHSYHRLSRWLQKEDYFDLSQGKVEWNS
FCEQLKRRLSKAGQERD

Figure 2A.

TLR12 DNA sequence

GGACCTTGCAGGTACTCTGAGGTGGATGAGAGTATTGGTAACCCGGAGG
CATAGGAGTCTAAAGTCCTCTCAGCTCTGATTCCCTCTGGTGTAGAGATGG
GCAGGTACTGGCTGCTGCCAGGTCTCCTCCTTTCCCTGCCTCTGGTAACT
GGGTGGAGCACTTCCAACCTGCCTGGTGACCGAAGGCTCCCGACTGCCCC
TGGTCTCCCGCTATTTACATTCTGCCGCCACTCCAAGCTATCCTTTCTTG
CTGCATGCCTCTCCGTGAGCAACCTGACACAGACCTTGGAAGTTGTACCT
CGGACTGTGGAGGGGCTCTGCCTCGGTGGTACTGTGTCTACTCTGCTTCC
AGATGCTTTCTCTGCTTTTCCTGGTCTCAAGGTCCTGGCACTGAGTCTGC
ACCTTACCCAACCTTCTGCCAGGAGCTCTCCGGGGTCTGGGACAGTTGCAG
AGCCTCTCTTTTTTTGACTCTCCTCTTAGGAGATCTCTCTTTCTACCTCCT
GATGCCCTTCAGTGACCTGATTTCCCTCCAGAGACTCCATATCTCTGGCCC
TTGCCTGGATAAGAAGGCAGGCATCCGCCTGCCTCCCGGTCTGCAATGG
CTGGGTGTACGCTCAGTTGCATTCAGGACGTGGGAGAGCTGGCTGGTA
TGTTCCAGATCTGGTGCAAGGTTCTCCTCCAGGGTTTCGTGGACCCTG
CAGAAGTTGGATCTGTCATCCAACCGGAAGCTGAAGATGGCTAGTCTTG
GGTCCCTCCAGGGTCTCCAGGTGGAGATTCTGGACCTGACAAGAACACC
ACTGGATGCTGTGTGGCTGAAGGGCCTGGGACTTCAGAAACTCGATGTC
TTGTATGCACAGACTGCCACGGCCGAGCTGGCTGCTGAGGCTGTTGCCC
ACTTTGAGCTGCAGGGCTTGATTGTGAAAGAAAGCAAGATAGGATCTAT
ATCTCAGGAGGCTCTGGCTTCCTGCCACAGCCTGAAGACCTTGGGTCTTT
CAAGCACTGGCCTAACCAAGCTTCCACCAGGCTTCCTGACTGCCATGCCT
AGGCTTCAGCGACTGGAGCTGTCCGGAACCAACTGCAGAGCGCCGTGC
TGTGCATGAATGAGACGGGAGATGTGTGAGGACTCACAACCTCTGGATCT
GTCAGGCAACAGGTTGCGCATCCTGCCTCCAGCCGCCTTCTCCTGCTTAC
CCCCTTGCAGAGAGCTGCTGCTTCGGTACAACCAGCTGCTTTCCCTGGAG
GGATACCTATTCCAGGAGCTCCAGCAACTAGAGACCTTGAAGCTGGATG
GAAACCCCTGCTTCACCTGGGTAAGAACTGGTTGGCGGCTCTGCCTGCA
TTGACCACCCTTAGCTTGCTAGATACCCAAATACGGATGAGCCCAGAGC
CTGGCTTCTGGGGAGCAAAGAATCTGCATACCTTGAGCCTGAAGCTTCCC
GCTCTCCCTGCTCCGGCAGTATTGTTCTGCCCATGTATCTGACCAGCTT
AGAGCTTCATATAGCCTCAGGCACGACGGAGCACTGGACGCTGTCCCCA
GAGATCTTTCTTCTTGGAGACCTTGACTATAAGCGGCGGGGGACTGA
AGCTGAAGCTGGGGTCCCAGAATGCTTCTGGGGTCTTCCCTGCTCTCCAG
AAGCTCTCCCTGCTTAAGAACAGCTTGGATGCCTTCTGCTCCCAGGGTAC
CTCCAACCTTTTCTCTGGCAGCTCCCCAACTTCAGTCCTTGAGGGTAT
GGGGTGCTGGAAACAGCTCCAGACCCTGCCTTATCACTGGGCTGCCCCAG
CCTACGGGAGCTGAAGCTGGCGTCGCTTCAGTCCATAACCCAGCCCCGT
CGGTGCAGCTGGAGGAGCTGGTGGGTGACCTTCCACAGCTCCAGGCCTT
AGTGCTATCCAGCACAGGCCTCAAGTCACTGTGCGCCGCTGCTTTCAGC
GCCTGCACAGTCTCCAGGTCTTAGTGCTAGAATACGAGAAGGACTTGAT
GCTGCAGGACAGTCTGAGGGAGTACAGCCCTCAGATGCCCCACTATATA
TACATTCTGGAGTCAAACCTGGCCTGCCACTGTGCCAATGCGTGGATGG
AGCCATGGGTTAAGCGGTCCACTAAAACGTACATATACATAAGAGACAA
TCGCTTATGTCCAGGACAAGACAGGCTCTCTGCTAGGGGTTCCCTTCCCT

Figure 2A (cont.)

CCTTTCTCTGGGACCACTGCCCCCAGACGTTGGAGCTGAAACTCTTTTTG
GCTAGTTCTGCCTTGGTGTTTCATGCTAATTGCCTTGCCTCTCCTCCAAGAA
GCCAGGAACTCTTGGATCCCCCTACCTGCAGGCCTTGTTTCAGGGTTTGGCT
CCAGGGTCTGAGGGGTAAGGGGAGACAAGGGGAAGAGGTTCTTTTCGAT
GTATTCGTGTCCCACTGCAGGCAAGACCAGGGCTGGGTGATAGAGGAAC
TTCTGCCTGCTCTGGAGGGCTTCCTTCCAGCTGGCCTGGGCCTGCGCCTC
TGTCTCCCCGAGCGTGAGTTTGAGCCTGGTAAGGATGTAGTTGATAATGT
GGTAGATAGCATGTTGAGCAGCCGTACCACACTCTGCGTGTTGAGTGGG
CAGGCCCTGTGTAACCCCCGATGCCGCCTGGAGCTCCGCTTGGCCACCTC
TCTCCTCCTGGCTGCCCCGTCCCCCCCAGTGTTGCTGCTAGTCTTCTTGGA
ACCCATTTCTCGGCACCAGCTTCCGGGTTACCACAGACTGGCTCGGCTGC
TTCGAAGAGGAGACTACTGTCTGTGGCCCGAGGAAGAGGAGAGAAAGA
GTGGGTTCTGGACTTGGCTGAGGAGCAGGCTAGGGTAGCCATAGCCAGC
ACTGGTGTGGGGTGGTGCATGTGAATTTTGGGGTGGGGTTGGG

Figure 2B.

TLR12 Protein sequence

MGRYWLLPGLLLSLPLVTGWSTSNCLVTEGSRLPLVSRYFTFCRHSKLSFLA
ACLSVSNLTQTLEVVPRTVEGLCLGGTVSTLLPDAFSAFPGLKVLALSHLT
QLLPALRGLGQLQSLSFFDSPLRRSLFPPDAFSDLISLQRLHISGPCLDKKA
GIRLPPGLQWLGVTLSCIQDVGELAGMFPDLVQGSSSRVSWTLQKLDLSSNR
KLKMASPGSLQGLQVEILDLTRTPLDAVWLKGLGLQKLDVLYAQTATAEL
AAEAVAHFELQGLIVKESKIGSISQEALASCHSLKTLGLSSTGLTKLPPGF
AMPRLQRLELSGNQLQSAVLCMNETGDVSGLTTLDSLGNRLRILPPAAFSC
PHLRELLRLRYNQLLSLEGYLFQELQQLETLKLDGNPLLHLGKNWLAALPAL
TTLSLDDTQIRMSPEPGFWGAKNLHTLSLKLPAVPAPAVLFLPMYLTSLHL
ASGTTEHWTLSPEIFPSLETTLISGGGLKLKLGSQNASGVFPALQKLSLLKNS
LDAFCSQGTSNLFWLQPKLQSLRVWGAGNSSRPCLITGLPSLRELKLASLQ
SITQPRSVQLEELVGDLPQLQALVLSSTGLKSLSAAAFQRLHSLQVLVLEYE
KDLMLQDSLREYSPQMPHYIYILESNLACHCANAWMEPWVKRSTKTYIYIR
DNRLCPGQDRLSARGSLPSFLWDHCPQTLELKLFLASSALVFMLIALPLLQE
ARNSWIPYLQALFRVWLQGLRGKGDGKRFLFDVVFVSHCRQDQGWVIEEL
LPALGFLPAGLGLRLCLPEREFEPGKDVVDNVVDSMLSSRTTLCVLSGQAL
CNPRCRLELRLATSLLLAAPSPPVLLLVFLEPISRHLQPGYHRLARLLRRGDY
CLWPEEEERKSGFWTWLRSRLG

Figure 3.

